MC extract

Introduction

MC extract protocol according Matti Walhsten from Kaarina Sivonen's group

Materials

- Freeze dried cyanobacteria
  - Our stock from Kaarina Sivonen's group
  - Includes about 1 promille of MC-LR, concentrations are calculated using this value
- 70 % methanol
- H2O or buffer
  - At least PBS is okay to use

Procedure

Making the extract

1. Suspend 50 mg of cyanobacteria into 1 mL of 70 % methanol

   This can be done in an eppendorf tube
2. Lysis of the cyanobacteria: 30 min in +80 °C, 5 min vortex, 30 min in +80 °C
3. Centrifuge 20 000 g, 5 min

   Supernatant should appear yellowish
4. Transfer supernatant into glass tube
5. Optional: Evaporate the methanol, add H2O or buffer up to 1 mL

   NOTE: MC can be handled with plastic if in at least 50% methanol
6. Resulting extract has the concentration of 50 ug/ml